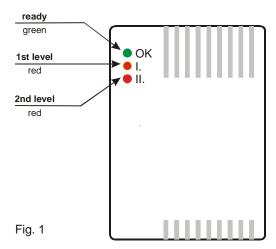
# The JA-80G Wireless Gas Leak Detector

The JA-80G is a component of Jablotron's Oasis 80 alarm system and detects mixtures of air and combustible gases or fumes (Natural Gas, Methane, Propane, Butane, Acetylene, GPL, Hydrogen, etc). The detector detects two levels of gas concentration, responding with two different reactions.

The mains-powered detector indicates a gas leakage optically, and acoustically, and transmits alarm wirelessly via Oasis protocol.

#### Installation

- Installation shall only be undertaken by technicians holding a certificate issued by an authorized distributor. Warning: this device is connected to the mains.
- Secure the detector on the wall. For gases lighter than air (natural gas, town gas etc.) install it close to the ceiling. For heavier gases (propane, butane, etc.) install it close to the floor.
- The detector should not be located close to any obstacles preventing natural air circulation. It should also not be located in a draft or close to a cooker (cooking smells and other fumes can have a bad influence on gas detection)
- Connect the wires, set the detector's features using its DIP switches and close its cover.
- Before you connect power, switch the control panel (receiver) to enrollment mode. The detector transmits enrollment signals when its power is connected.



## **Power terminals**

Route the power cable to the terminals marked 230V AC. The power inlet should be fused with an external fuse (max. 10A). Do not open the detector cover if the power is on.

## **Output relay terminals**

There is a dry relay switch-over contact available (max. 5A/230V AC)

C - common contact

NO - normally open contact

NC - normally closed contact

This relay output could be used for example to shut down the gas inlet if there was a gas leak (by means of a suitable electric gas valve).

## **DIP** switches

There are two DIP switches in the detector to set its features:

#	OFF	ON
1	relay is triggered if the 1st level of	relay is triggered if the 2 <sup>nd</sup> level of
	gas concentration is exceeded	gas concentration is exceeded
2	indication of gas leakage will stop	indication of gas leakage will last
	after the concentration drops	until the detector power is switched
	down	off (memory function)

## **Function**

After switching the power on, the detector transmits its enrollment signal and the green LED flashes for about 90 seconds while the detector warms up. When the green LED lights constantly, the detector is ready for operation.

If the gas concentration reaches the 1<sup>st</sup> level, short beeps sound and the first red LED lights.

If the gas concentration reaches the 2<sup>nd</sup> level, long beeps sound and the second red LED lights.

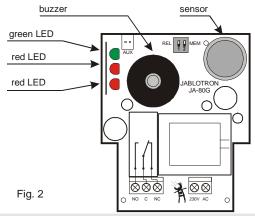
The output relay reacts depending on DIP switch #1's setting.

A fire alarm signal is transmitted wirelessly at the same moment as the detector's relay reacts (depends on DIP switch #1's setting).

The JA-80G detector does not regularly check communication with the control panel (receiver), so the system will not indicate a lost detector during power dropouts.

Warning - If there is a gas alarm, don't operate any switches or electrical devices. Open the windows, and stop the gas leak, if practical. Call the fire department immediately, but do not use a phone inside.

LED indicators				
	•	OFF	the gas detector is off	
Green	•	flashes	warming up	
	•	ON	ready for a gas alarm	
Red I.	•	ON	1 <sup>st</sup> level of gas concentration	
Red II.	•	ON	2 <sup>nd</sup> level of gas concentration	
Red II.	•	Alternating	sensor error	
Green		flashes		



## Maintenance and testing

Keep the detector clean, it is important that its grids should not be blocked with dust.

Use a gas cigarette lighter without the flame lit, to test the gas detector's reaction. The detector will react within 15 seconds.

Professional recalibration of the detector should be done at least every 1 year. Contact your distributor for more details.

## Specifications

Power supply 230V(-15% to+10) / 50Hz, 2 W, protection

class II

Detection method hot platinum filament

Buzzer sound level 94dB/0.3m

Relay output optional for 1<sup>st</sup> or 2<sup>nd</sup> level, max.230V AC/5A

Alarm memory selectable Response time 10 s

Warm up time approximately 90 s
Communication band 868 MHz, Oasis protocol
Communication range approx. 200m (open area)
Working environment indoor use, -10 to +40°C, IP30

Complies with EN 61779-1,4, ETSI EN 300220, EN 60950,

EN 50130-4, EN 55022

Can be operated according to ERC REC 70-03 Sensitivity:

Methane Propane

 Methane
 Propane

 1. level
 10±2% LEL (0,44% methane)
 15±3% LEL (0,26% propane)

 2. level
 17±3% LEL (0,75% methane)
 30±3% LEL (0,51% propane)

Iso-butane

1. level 15±3% LEL (0,20% ISO-butane)
2. level 30±3% LEL (0,39% ISO-butane)
NOTE: LEL = Lower Explosive Limit, calibrated by iso-butane

Jablotron Ltd. hereby declares that the JA-80G is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

The original of the conformity assessment can be found on the website www.jablotron.com, Technical Support section.



**Note:** Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the manufacturer after use.

Czech Republic
Tel.: +420 483 559 999
fax: +420 483 559 993
Internet: www.jablotron.cz
MEF51307 OS1

466 01 Jablonec nad Nisou